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Solution by JOHN FAUGHT, Vincennes University, Vincennes, Indiana.

1. $\frac{1}{8}$ of cost + cost = $\frac{9}{8}$ of cost = \$2160.
2. \therefore the cost = \$1920.
3. The number of bushels \times cost per bu. = \$1920.
4. $\frac{3}{4} \frac{9}{10}$ number of bu. \times cost per bu. = $\frac{3}{4} \frac{9}{10}$ of \$1920 = \$1872.
5. $\frac{3}{4} \frac{9}{10}$ of number of bu. \times cost per bu. + $\frac{3}{4} \frac{9}{10}$ of number of bu. \times \$0.12 $\frac{4}{13}$ = \$2160.
6. \therefore \$1872 + $\frac{3}{4} \frac{9}{10}$ of number of bu. \times \$0.12 $\frac{4}{13}$ = \$2160,
7. or $\frac{3}{4} \frac{9}{10} \times 1 \frac{6}{13}$ of number of bu. = \$2160 - \$1872 = \$288,
8. or .12 \times number of bu. = 288.
9. \therefore number of bu. = 2400.
10. $\$1920 \div 2400 = \0.80 , price per bushel.
 \therefore he bought 2400 bushels at 80 cents per bushel.

This problem was also solved by G. B. M. ZERR, R. H. YOUNG, A. L. FOOTE, COOPER D. SCHMITT, P. S. BERG, P. C. CULLEN, I. L. BEVERAGE, J. K. ELLWOOD, and W. I. TAYLOR.

PROBLEMS.

27. Proposed by F. P. MATZ, M. Sc., Ph. D., Professor of Mathematics and Astronomy in New Windsor College, New Windsor, Maryland.

A and *B* buy a ship for $S=\$80000$, of which *A* has the $abth=\frac{5}{8}$, and *B* the $cdth=\frac{3}{8}$, interest. They sell *C* the $mnth=\frac{1}{2}$ interest for $P=\$40000$; and then agree that *A* should retain the $pqth=\frac{1}{12}$, and *B* the $rsth=\frac{1}{12}$, interest. How is the purchase-money received from *C* to be divided between *A* and *B*?

28. Proposed by J. K. ELLWOOD, A. M., Principal of Colfax School, Pittsburg, Pennsylvania.

A rectangular field (not square) contains as many acres as there are boards in the fence enclosing it. The fence is 4 boards high and each board is 11 feet long. How many acres in the field?

Solutions to these problems should be received on or before September 1st.

ALGEBRA.

Conducted by J. M. COLAW, Monterey, Va. All contributions to this department should be sent to him.

SOLUTIONS TO PROBLEMS.

19. Proposed by A. L. FOOTE, C. E., No. 80, Broad St., New York City.